

The invention claimed is:

1. A device for molding crayons or toys, comprising:

a housing defining a restricted access area and including a door that provides access to the restricted access area;

a stationary melting chamber within the restricted access area; and

5 an electrically powered heating element adjacent the melting chamber; and

a mold in the restricted access area and connected to the melting chamber.

2. The device of claim 1 and a door switch that disconnects the electrical power from the heating element when the door is open.

3. The device of claim 1 and a gate for alternatively permitting and preventing flow between  
10 the melting chamber and the mold.

4. The device of claim 3 and an interlock between the gate and the door, which prevents the door from moving from the closed position when the gate is permitting flow.

5. The device of claim 1 which and a warning light secured to the housing that signals when the heating element is activated.

15 6. The device of claim 1 and a regulator extending outwardly from the housing directs to permit or prevent flow of melted material from the melting chamber.

7. A device for recycling wax pieces, which comprises:

a housing defining a restricted access area;

a melting chamber in the restricted access area for producing liquid wax from wax pieces;

20 a flow path within the restricted access area and extending from the melting chamber for directing the flow of liquid wax;

a gate that controls the flow of liquid wax from the melting chamber to the flow path;

a mold connected to the flow path; and

a door that provides access to the mold when the door is in an open position and prevents

25 access to the mold when the door is in a closed position.

8. The device of claim 7 and a filler tube leading to the melting chamber for receiving a wax piece from outside the housing.

9. The device of claim 7 and a heating element within the melting chamber.

10. The device of claim 7 and a regulator, which is accessible from outside the housing and  
30 directs the gate to permit or prevent flow.

11. The device of claim 7 in which the liquid wax flows primarily by gravity from the melting chamber to the mold along the flow path.

12. The device of claim 9 and a thermostatic switch for sensing the temperature of the melting chamber and controlling electricity to the heating element.

35 13. The device of claim 7 and a shutdown switch for interrupting electricity to the heating element when the housing is tilted.

14. The device of claim 7 and a switch for sensing the temperature of the heating element and interrupting electricity to the heating element when the temperature exceeds a given value.

15. The device of claim 7 and a door switch for interrupting electricity to the heating element  
40 when the door is not in the closed position.

16. A toy molding device for use with wax material, which comprises:

a stationary melting chamber;

an electrical heating element for heating the melting chamber;

a mold;

45           a housing substantially surrounding the melting chamber and the mold so as to restrict  
access by a user to the melting chamber and the mold, the housing including a door having an  
open position which provides access to the mold and a closed position which prevents access to  
the mold;

          a gate having a open position which permits flow of the material between the melting  
50   chamber and the mold, and a closed position which prevents the flow of the material between the  
melting chamber and the mold; and

          an interlock that prevents the door from moving to the open position when the gate is in  
the open position.

17.    The device of claim 15 and a microswitch that senses when the door is in the open  
55   position and interrupts the supply of electrical current to the electrical heating element.

18.    The device of claim 15 and a tilt switch that senses when the housing inclines more than  
a predetermined amount from the vertical and then interrupts the supply of electrical current to  
the electrical heating element.

19.    The device of claim 15 and a high-temperature switch that senses when the melting  
60   chamber temperature reaches a predetermined value and interrupts the supply of electrical  
current to the electrical heating element.